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OM protein - protein search, using sw model

Run on: November 30, 2002, 12:29:03 ; Search time 9.25373 Seconds
 (without alignments)
 1066.922 Million cell updates/sec

Title: US-10-054-680-4

Perfect score: 3228

Sequence: 1 MAWLRIQPLTSNFLHFGLV.....ADYGRGGQQEDSRDGKASIG 620

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 102317 seqs, 15924203 residues

Total number of hits satisfying chosen parameters: 102317

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
 Maximum Match 100%
 Listing first 45 summaries

Database : Published Applications AA:*

1: /cgn2_6/ptodata/2/pupbaa/US08_NEW_PUB.pep: *
 2: /cgn2_6/ptodata/2/pupbaa/PCT_NEW_PUB.pep: *
 3: /cgn2_6/ptodata/2/pupbaa/US06_NEW_PUB.pep: *
 4: /cgn2_6/ptodata/2/pupbaa/US06_PUBCOMB.pep: *
 5: /cgn2_6/ptodata/2/pupbaa/US07_NEW_PUB.pep: *
 6: /cgn2_6/ptodata/2/pupbaa/US07_PUBCOMB.pep: *
 7: /cgn2_6/ptodata/2/pupbaa/PCTUS_PUBCOMB.pep: *
 8: /cgn2_6/ptodata/2/pupbaa/US08_PUBCOMB.pep: *
 9: /cgn2_6/ptodata/2/pupbaa/US09_NEW_PUB.pep: *
 10: /cgn2_6/ptodata/2/pupbaa/US09_PUBCOMB.pep: *
 11: /cgn2_6/ptodata/2/pupbaa/US10_NEW_PUB.pep: *
 12: /cgn2_6/ptodata/2/pupbaa/US10_PUBCOMB.pep: *
 13: /cgn2_6/ptodata/2/pupbaa/US60_NEW_PUB.pep: *
 14: /cgn2_6/ptodata/2/pupbaa/US60_PUBCOMB.pep: *

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match Length	DB ID	Description
1	3228	100 0	620	12 US-10-054-680-4
2	3093	95 8	921	10 US-09-804-474A-2
3	3093	95 8	921	12 US-10-054-680-2
4	3016	93 4	927	10 US-09-804-474A-4
5	2147.5	66.5	970	10 US-09-901-419-2
6	2143.5	66.4	609	10 US-09-864-761-33429
7	203.5	6.3	661	12 US-10-094-214-5
8	180.5	5.6	603	10 US-09-961-679-2
9	116.5	5.6	584	12 US-10-094-214-2
10	113.5	3.5	152	12 US-10-094-214-4
11	99.5	3.1	569	10 US-09-931-147-2
12	97.5	3.0	316	10 US-09-961-679-4
13	97.5	3.0	353	10 US-09-961-679-6
14	95	2.9	420	10 US-09-844-006A-2
15	95	2.9	591	10 US-09-815-242-662
16	93.5	2.9	1381	10 US-09-930-871-8
17	93.5	2.9	1387	10 US-09-930-871-10
18	93.5	2.9	1392	10 US-09-930-871-18
19	93.5	2.9	1398	10 US-09-930-871-20

RESULT 1

US-10-054-680-4

; Sequence 4, Application US/10054680
 ; PATENT NO. US20020132998A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Fiddle, Carl Johan
 ; APPLICANT: Hilbun, Erin
 ; TITLE OF INVENTION: Human Ion Exchanger Proteins and Polynucleotides
 ; TITLE OF INVENTION: Same
 ; FILE REFERENCE: LEX-0301-USA
 ; CURRENT APPLICATION NUMBER: US/10/054-680
 ; CURRENT FILING DATE: 2002-01-22
 ; PRIORITY APPLICATION NUMBER: US 60/263,384
 ; NUMBER OF SEQ ID NOS: 5
 ; SEQ ID NO: 4
 ; LENGTH: 620
 ; TYPE: PRT
 ; ORGANISM: homo sapiens

ALIGNMENTS

US-10-054-680-4

Query Match Best Local Similarity 100.0%; Pred. No. 3.7e-294; Length 620; Matches 620; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MAWLRIQPLTSNFLHFGLV.....ADYGRGGQQEDSRDGKASIG 620
 Db 1 MAWLRIQPLTSNFLHFGLV.....ADYGRGGQQEDSRDGKASIG 620

QY 61 PIWYPENPISLGDKIARVIVIVFVALTYMFLGVSIIDRFMASEIVTQSEREVTKPNE 120
 Db 61 PIWYPENPISLGDKIARVIVIVFVALTYMFLGVSIIDRFMASEIVTQSEREVTKPNE 120

QY 121 TSTTTRWVNETVSNLTMALGSSPEIILSLLIEVGHHGTAGDGPSTIVGSAFNMF 180
 Db 121 TSTTTRWVNETVSNLTMALGSSPEIILSLLIEVGHHGTAGDGPSTIVGSAFNMF 180

QY 181 IIGICVYVPIGEGTRIKHLRVEFTAAWSFAYWLMILAVLSPGVQWEGLITFF 240
 Db 181 IIGICVYVPIGEGTRIKHLRVEFTAAWSFAYWLMILAVLSPGVQWEGLITFF 240

QY 241 FPCVCLLAWADKRLFLYKYMHKYRTDKHGLIETEGDHPKGITEMGKMMNSHFLGN 300
 Db 241 FPCVCLLAWADKRLFLYKYMHKYRTDKHGLIETEGDHPKGITEMGKMMNSHFLGN 300
 QY 301 LVPLEGKEDESRREMIRILKDKQHPEKDQDOLVEMANYALSHQOKSRAFYRQATR 360
 Db 301 LVPLEGKEDESRREMIRILKDKQHPEKDQDOLVEMANYALSHQOKSRAFYRQATR 360
 QY 361 MMGTAGNITLKKHAQAKASSMSEVHTDEPDFISKVFDPSCSYOCLENGAVLTVR 420
 Db 361 MMGTAGNITLKKHAQAKASSMSEVHTDEPDFISKVFDPSCSYOCLENGAVLTVR 420
 QY 421 KGGDMSKTMVYDVKTEDGSANAGADYETEGTVLKGTEQFKEFSGV1DDDFEEDEHF 480
 Db 421 KGGDMSKTMVYDVKTEDGSANAGADYETEGTVLKGTEQFKEFSGV1DDDFEEDEHF 480
 QY 481 FVRLSNVRIEEQPEEGMPATNSPLPRAVLASPCTAVTILDDHAGIFTECDTH 540
 Db 481 FVRLSNVRIEEQPEEGMPATNSPLPRAVLASPCTAVTILDDHAGIFTECDTH 540
 QY 481 FVRLSNVRIEEQPEEGMPATNSPLPRAVLASPCTAVTILDDHAGIFTECDTH 540
 Db 601 ADYGRGGQEDSRDGKASIG 620
 Db 601 ADYGRGGQEDSRDGKASIG 620

RESULT 2
 US-09-804-474A-2
 ; Sequence 2, Application US/09804474A
 ; GENERAL INFORMATION:
 ; APPLICANT: KODEB, Stefan et al
 ; TITLE OF INVENTION: ISOLATED HUMAN TRANSPORTER PROTEINS, NUCLEIC ACID MOLECULES ENCODING HUMAN TRANSPORTER PROTEINS, TITLE OF INVENTION: AND USES THEREOF
 ; FILE REFERENCE: CL000891
 ; CURRENT APPLICATION NUMBER: US/09/804,474A
 ; CURRENT FILING DATE: 2001-03-13
 ; NUMBER OF SEQ ID NOS: 4
 ; SOFTWARE: FastSEQ for Windows Version 4.0
 ; SEQ ID NO 2
 ; LENGTH: 921
 ; TYPE: PRT
 ; ORGANISM: Human
 ; US-09-804-474A-2

Query Match 95.8%; Score 3093; DB 10; Length 921;
 Best Local Similarity 100.0%; Pred. No. 3e-281; Matches 595; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1 MAWLRLQPLTSFLHFGTVFVLFLNGIRAEAGGSDVPSGTQNNEGSGSSDCKEGVIL 60
 Db 1 MAWLRLQPLTSFLHFGTVFVLFLNGIRAEAGGSDVPSGTQNNEGSGSSDCKEGVIL 60
 QY 61 PIWYPENPSLGDKIAKARVIVFVALIYMFGLVSIIDRMAFIEVTSQEREVTKPNGE 120
 Db 61 PIWYPENPSLGDKIAKARVIVFVALIYMFGLVSIIDRMAFIEVTSQEREVTKPNGE 120
 QY 121 TSTTIRWNETVSNTLMALGSSAPEILSIEVCGHFIAGDLGPSTIVGSAFNMI 180
 Db 121 TSTTIRWNETVSNTLMALGSSAPEILSIEVCGHFIAGDLGPSTIVGSAFNMI 180
 QY 181 IIGICVYVTPDGETRKHLRVEFTTAWSIFAYIWLYMLAVSPGVVWQWEGLTLFF 240
 Db 181 IIGICVYVTPDGETRKHLRVEFTTAWSIFAYIWLYMLAVSPGVVWQWEGLTLFF 240
 QY 181 IIGICVYVTPDGETRKHLRVEFTTAWSIFAYIWLYMLAVSPGVVWQWEGLTLFF 240
 Db 181 IIGICVYVTPDGETRKHLRVEFTTAWSIFAYIWLYMLAVSPGVVWQWEGLTLFF 240
 QY 241 FPCVCLLAWADKRLFLYKYMHKYRTDKHGLIETEGDHPKGITEMGKMMNSHFLGN 300
 Db 241 FPCVCLLAWADKRLFLYKYMHKYRTDKHGLIETEGDHPKGITEMGKMMNSHFLGN 300
 QY 301 LVPLEGKEDESRREMIRILKDKQHPEKDQDOLVEMANYALSHQOKSRAFYRQATR 360
 Db 301 LVPLEGKEDESRREMIRILKDKQHPEKDQDOLVEMANYALSHQOKSRAFYRQATR 360
 QY 361 MMGTAGNITLKKHAQAKASSMSEVHTDEPDFISKVFDPSCSYOCLENGAVLTVR 420
 Db 361 MMGTAGNITLKKHAQAKASSMSEVHTDEPDFISKVFDPSCSYOCLENGAVLTVR 420

Db	361 MMTGAGNILKKHAEQAKKASSMSEVHTDEPDFISKVFFDPCSIQCLENGAVLTVR	Db	481 FVRLSNVRVEEQLEQEGMTPATLNSPLPRAVLASPVCATVTLDDDHAGIFTFECDTIH
Qy	421 KGGDMSKTMVYDQKTEDGSANAGADEYFTEGTVLKGEOFKEFSGVLTDDDFEDEHF	Qy	541 VSEIGVMEVKLRTSGARGVIVPRTVEGAKGGDEFDTYGELEKNDETV
Db	421 KGGDMSKTMVYDQKTEDGSANAGADEYFTEGTVLKGEOFKEFSGVLTDDDFEDEHF	Db	541 VSEIGVMEVKLRTSGARGVIVPRTVEGAKGGDEFDTYGELEKNDETV
Qy	481 FVRLSNVRVEEQPEEGMPPAFNSPLPRAVLASPVCATVTLDDDHAGIFTFECDTIH	Qy	541 VSEIGVMEVKLRTSGARGVIVPRTVEGAKGGDEFDTYGELEKNDETV
Db	481 FVRLSNVRVEEQPEEGMPPAFNSPLPRAVLASPVCATVTLDDDHAGIFTFECDTIH	Db	541 VSEIGVMEVKLRTSGARGVIVPRTVEGAKGGDEFDTYGELEKNDETV
Qy	541 VSEIGVMEVKLRTSGARGVIVPRTVEGAKGGDEFDTYGELEKNDETV	Qy	541 VSEIGVMEVKLRTSGARGVIVPRTVEGAKGGDEFDTYGELEKNDETV
Db	541 VSEIGVMEVKLRTSGARGVIVPRTVEGAKGGDEFDTYGELEKNDETV	Db	541 VSEIGVMEVKLRTSGARGVIVPRTVEGAKGGDEFDTYGELEKNDETV
RESULT 4			
US-09-804-474A-4			
Patent No. US20020119518A1			
GENERAL INFORMATION:			
APPLICANT: KODET, Stefan et al			
TITLE OF INVENTION: ISOLATED HUMAN TRANSPORTER PROTEINS,			
TITLE OF INVENTION: NUCLEIC ACID MOLECULES ENCODING HUMAN TRANSPORTER PROTEINS,			
FILE REFERENCE: C1000891			
CURRENT APPLICATION NUMBER: US/09/804,474A			
CURRENT FILING DATE: 2001-03-13			
NUMBER OF SEQ ID NOS: 4			
SOFTWARE: FastSEQ for Windows Version 4.0			
SEQ ID NO: 4			
LENGTH: 927			
; TYPE: PRT			
; ORGANISM: Rat			
; US-09-804-474A-4			
Query Match			
Best Local Similarity 97.1%; Score 3016; DB 10; Length 927;			
Matches 578; Conservative 8; Mismatches 9; Indels 0; Gaps 0;			
Qy	1 MAWLRLQPLTSFLHGLVFLFNGLRAEAGGSDVPSTGQNNECSSSCKEGVIL	Qy	1 MAWLRLQPLTSFLHGLVFLFNGLRAEAGGSDVPSTGQNNECSSSCKEGV
Db	1 MAWLRLQPLTSFLHGLVFLFNGLRAEAGGSDVPSTGQNNECSSSCKEGVIL	Db	1 MAWLRLQPLTSFLHGLVFLFNGLRAEAGGSDVPSTGQNNECSSSCKEGVIL
Qy	61 PIWYEPENPSLQGDKTARVIVFVALIYFLGVSIADRMSAIEVITSQEREVTIKPN	Qy	61 PIWYEPENPSLQGDKTARVIVFVALIYFLGVSIADRMSAIEVITSQEREVTIKPN
Db	61 PIWYEPENPSLQGDKTARVIVFVALIYFLGVSIADRMSAIEVITSQEREVTIKPN	Db	61 PIWYEPENPSLQGDKTARVIVFVALIYFLGVSIADRMSAIEVITSQEREVTIKPN
Qy	121 TSTTTRVWNNETVSNLTMALGSSAPEIILSLLIEVCGHGTAGDGLGPSTIVGSAFNFI	Qy	121 TSTTTRVWNNETVSNLTMALGSSAPEIILSLLIEVCGHGTAGDGLGPSTIVGSAFNFI
Db	121 TSTTTRVWNNETVSNLTMALGSSAPEIILSLLIEVCGHGTAGDGLGPSTIVGSAFNFI	Db	121 TSTTTRVWNNETVSNLTMALGSSAPEIILSLLIEVCGHGTAGDGLGPSTIVGSAFNFI
Qy	181 IIGICVYVVIDGETIKHARVEFTAANSIFAYIWLYMLAVSPGVVWVWEGLTLFF	Qy	181 IIGICVYVVIDGETIKHARVEFTAANSIFAYIWLYMLAVSPGVVWVWEGLTLFF
Db	181 IIGICVYVVIDGETIKHARVEFTAANSIFAYIWLYMLAVSPGVVWVWEGLTLFF	Db	181 IIGICVYVVIDGETIKHARVEFTAANSIFAYIWLYMLAVSPGVVWVWEGLTLFF
Qy	241 FPPVCVLLAWADKRLFYKMHKKYRTDKHGRGIIITEGDPHPKGTEMGKMMNSHLDGN	Qy	241 FPPVCVLLAWADKRLFYKMHKKYRTDKHGRGIIITEGDPHPKGTEMGKMMNSHLDGN
Db	241 FPPVCVLLAWADKRLFYKMHKKYRTDKHGRGIIITEGDPHPKGTEMGKMMNSHLDGN	Db	241 FPPVCVLLAWADKRLFYKMHKKYRTDKHGRGIIITEGDPHPKGTEMGKMMNSHLDGN
Qy	301 LVPLGKEVDESSREMRMILKDKOKHPEKDDQDLOVEMANYVLSHQKSRAFYIQTAR	Qy	301 LVPLGKEVDESSREMRMILKDKOKHPEKDDQDLOVEMANYVLSHQKSRAFYIQTAR
Db	301 LVPLGKEVDESSREMRMILKDKOKHPEKDDQDLOVEMANYVLSHQKSRAFYIQTAR	Db	301 LVPLGKEVDESSREMRMILKDKOKHPEKDDQDLOVEMANYVLSHQKSRAFYIQTAR
Qy	361 MMTGAGNILKKHAEQAKKASSMSEVHTDEPDFISKVFFDPCSIQCLENGAVLTVR	Qy	361 MMTGAGNILKKHAEQAKKASSMSEVHTDEPDFISKVFFDPCSIQCLENGAVLTVR
Db	361 MMTGAGNILKKHAEQAKKASSMSEVHTDEPDFISKVFFDPCSIQCLENGAVLTVR	Db	361 MMTGAGNILKKHAEQAKKASSMSEVHTDEPDFISKVFFDPCSIQCLENGAVLTVR
Qy	421 KGGDMSKTMVYDQKTEDGSANAGADEYFTEGTVLKGEOFKEFSGVLTDDDFEDEHF	Qy	421 KGGDMSKTMVYDQKTEDGSANAGADEYFTEGTVLKGEOFKEFSGVLTDDDFEDEHF
Db	421 KGGDMSKTMVYDQKTEDGSANAGADEYFTEGTVLKGEOFKEFSGVLTDDDFEDEHF	Db	421 KGGDMSKTMVYDQKTEDGSANAGADEYFTEGTVLKGEOFKEFSGVLTDDDFEDEHF
Qy	481 FVRLSNVRVEEQPEEGMPPAFNSPLPRAVLASPVCATVTLDDDHAGIFTFECDTIH	Qy	481 FVRLSNVRVEEQPEEGMPPAFNSPLPRAVLASPVCATVTLDDDHAGIFTFECDTIH
; US-09-804-474A-4			
Sequence 4, Application US/09804474A			
GENERAL INFORMATION:			
APPLICANT: The Curators of the University of Missouri			
TITLE OF INVENTION: LARGE SCALE EXPRESSION AND PURIFICATION OF RECOMBINANT			
FILE REFERENCE: US/01531.1			
CURRENT APPLICATION NUMBER: US/09/901,419			
CURRENT FILING DATE: 2001-07-09			
PRIORITY APPLICATION NUMBER: 60/218,125			
NUMBER OF SEQ ID NOS: 2			
SOFTWARE: Patentin Ver. 2.1			
SEQ ID NO: 2			
LENGTH: 970			
; TYPE: PRT			
; ORGANISM: Bos taurus			
; US-09-901-419-2			
Query Match			
Best Local Similarity 93.4%; Score 3016; DB 10; Length 927;			
Matches 578; Conservative 8; Mismatches 9; Indels 0; Gaps 0;			
Qy	1 MAWLRLQPLTSFLHGLVFLFNGLRAEAGGSDVPSTGQNNECSSSCKEGVIL	Qy	1 MAWLRLQPLTSFLHGLVFLFNGLRAEAGGSDVPSTGQNNECSSSCKEGV
Db	1 MAWLRLQPLTSFLHGLVFLFNGLRAEAGGSDVPSTGQNNECSSSCKEGVIL	Db	1 MAWLRLQPLTSFLHGLVFLFNGLRAEAGGSDVPSTGQNNECSSSCKEGV
Qy	61 PIWYEPENPSLQGDKTARVIVFVALIYFLGVSIADRMSAIEVITSQEREVTIKPN	Qy	61 PIWYEPENPSLQGDKTARVIVFVALIYFLGVSIADRMSAIEVITSQEREVTIKPN
Db	61 PIWYEPENPSLQGDKTARVIVFVALIYFLGVSIADRMSAIEVITSQEREVTIKPN	Db	61 PIWYEPENPSLQGDKTARVIVFVALIYFLGVSIADRMSAIEVITSQEREVTIKPN
Qy	121 TSTTTRVWNNETVSNLTMALGSSAPEIILSLLIEVCGHGTAGDGLGPSTIVGSAFNFI	Qy	121 TSTTTRVWNNETVSNLTMALGSSAPEIILSLLIEVCGHGTAGDGLGPSTIVGSAFNFI
Db	121 TSTTTRVWNNETVSNLTMALGSSAPEIILSLLIEVCGHGTAGDGLGPSTIVGSAFNFI	Db	121 TSTTTRVWNNETVSNLTMALGSSAPEIILSLLIEVCGHGTAGDGLGPSTIVGSAFNFI
Qy	181 IIGICVYVVIDGETIKHARVEFTAANSIFAYIWLYMLAVSPGVVWVWEGLTLFF	Qy	181 IIGICVYVVIDGETIKHARVEFTAANSIFAYIWLYMLAVSPGVVWVWEGLTLFF
Db	181 IIGICVYVVIDGETIKHARVEFTAANSIFAYIWLYMLAVSPGVVWVWEGLTLFF	Db	181 IIGICVYVVIDGETIKHARVEFTAANSIFAYIWLYMLAVSPGVVWVWEGLTLFF
Qy	241 FPPVCVLLAWADKRLFYKMHKKYRTDKHGRGIIITEGDPHPKGTEMGKMMNSHLDGN	Qy	241 FPPVCVLLAWADKRLFYKMHKKYRTDKHGRGIIITEGDPHPKGTEMGKMMNSHLDGN
Db	241 FPPVCVLLAWADKRLFYKMHKKYRTDKHGRGIIITEGDPHPKGTEMGKMMNSHLDGN	Db	241 FPPVCVLLAWADKRLFYKMHKKYRTDKHGRGIIITEGDPHPKGTEMGKMMNSHLDGN
Qy	301 LVPLGKEVDESSREMRMILKDKOKHPEKDDQDLOVEMANYVLSHQKSRAFYIQTAR	Qy	301 LVPLGKEVDESSREMRMILKDKOKHPEKDDQDLOVEMANYVLSHQKSRAFYIQTAR
Db	301 LVPLGKEVDESSREMRMILKDKOKHPEKDDQDLOVEMANYVLSHQKSRAFYIQTAR	Db	301 LVPLGKEVDESSREMRMILKDKOKHPEKDDQDLOVEMANYVLSHQKSRAFYIQTAR
Qy	361 MMTGAGNILKKHAEQAKKASSMSEVHTDEPDFISKVFFDPCSIQCLENGAVLTVR	Qy	361 MMTGAGNILKKHAEQAKKASSMSEVHTDEPDFISKVFFDPCSIQCLENGAVLTVR
Db	361 MMTGAGNILKKHAEQAKKASSMSEVHTDEPDFISKVFFDPCSIQCLENGAVLTVR	Db	361 MMTGAGNILKKHAEQAKKASSMSEVHTDEPDFISKVFFDPCSIQCLENGAVLTVR
Qy	421 KGGDMSKTMVYDQKTEDGSANAGADEYFTEGTVLKGEOFKEFSGVLTDDDFEDEHF	Qy	421 KGGDMSKTMVYDQKTEDGSANAGADEYFTEGTVLKGEOFKEFSGVLTDDDFEDEHF
Db	421 KGGDMSKTMVYDQKTEDGSANAGADEYFTEGTVLKGEOFKEFSGVLTDDDFEDEHF	Db	421 KGGDMSKTMVYDQKTEDGSANAGADEYFTEGTVLKGEOFKEFSGVLTDDDFEDEHF
Qy	481 FVRLSNVRVEEQPEEGMPPAFNSPLPRAVLASPVCATVTLDDDHAGIFTFECDTIH	Qy	481 FVRLSNVRVEEQPEEGMPPAFNSPLPRAVLASPVCATVTLDDDHAGIFTFECDTIH
; US-09-901-419-2			
Sequence 2, Application US/09901419			
GENERAL INFORMATION:			
APPLICANT: The Curators of the University of Missouri			
TITLE OF INVENTION: LARGE SCALE EXPRESSION AND PURIFICATION OF RECOMBINANT			
FILE REFERENCE: US/01531.1			
CURRENT APPLICATION NUMBER: US/09/901,419			
CURRENT FILING DATE: 2001-07-09			
PRIORITY APPLICATION NUMBER: 60/218,125			
NUMBER OF SEQ ID NOS: 2			
SOFTWARE: Patentin Ver. 2.1			
SEQ ID NO: 2			
LENGTH: 970			
; TYPE: PRT			
; ORGANISM: Bos taurus			
; US-09-901-419-2			
Query Match			
Best Local Similarity 69.4%; Score 2147.5; DB 10; Length 970;			
Matches 422; Conservative 74; Mismatches 9; Indels 21; Gaps 8;			
Qy	1 MAWLRLQPLTSFLHGLVFLFNGLRAEAGGSDVPSTGQNNECSSSCKEGVIL	Qy	1 MAWLRLQPLTSFLHGLVFLFNGLRAEAGGSDVPSTGQNNECSSSCKEGV
Db	1 MAWLRLQPLTSFLHGLVFLFNGLRAEAGGSDVPSTGQNNECSSSCKEGVIL	Db	1 MAWLRLQPLTSFLHGLVFLFNGLRAEAGGSDVPSTGQNNECSSSCKEGV
Qy	61 PIWYEPENPSLQGDKTARVIVFVALIYFLGVSIADRMSAIEVITSQEREVTIKPN	Qy	61 PIWYEPENPSLQGDKTARVIVFVALIYFLGVSIADRMSAIEVITSQEREVTIKPN
Db	61 PIWYEPENPSLQGDKTARVIVFVALIYFLGVSIADRMSAIEVITSQEREVTIKPN	Db	61 PIWYEPENPSLQGDKTARVIVFVALIYFLGVSIADRMSAIEVITSQEREVTIKPN
Qy	121 TSTTTRVWNNETVSNLTMALGSSAPEIILSLLIEVCGHGTAGDGLGPSTIVGSAFNFI	Qy	121 TSTTTRVWNNETVSNLTMALGSSAPEIILSLLIEVCGHGTAGDGLGPSTIVGSAFNFI
Db	121 TSTTTRVWNNETVSNLTMALGSSAPEIILSLLIEVCGHGTAGDGLGPSTIVGSAFNFI	Db	121 TSTTTRVWNNETVSNLTMALGSSAPEIILSLLIEVCGHGTAGDGLGPSTIVGSAFNFI
Qy	181 IIGICVYVVIDGETIKHARVEFTAANSIFAYIWLYMLAVSPGVVWVWEGLTLFF	Qy	181 IIGICVYVVIDGETIKHARVEFTAANSIFAYIWLYMLAVSPGVVWVWEGLTLFF
Db	181 IIGICVYVVIDGETIKHARVEFTAANSIFAYIWLYMLAVSPGVVWVWEGLTLFF	Db	181 IIGICVYVVIDGETIKHARVEFTAANSIFAYIWLYMLAVSPGVVWVWEGLTLFF
Qy	241 FPPVCVLLAWADKRLFYKMHKKYRTDKHGRGIIITEGDPHPKGTEMGKMMNSHLDGN	Qy	241 FPPVCVLLAWADKRLFYKMHKKYRTDKHGRGIIITEGDPHPKGTEMGKMMNSHLDGN
Db	241 FPPVCVLLAWADKRLFYKMHKKYRTDKHGRGIIITEGDPHPKGTEMGKMMNSHLDGN	Db	241 FPPVCVLLAWADKRLFYKMHKKYRTDKHGRGIIITEGDPHPKGTEMGKMMNSHLDGN
Qy	301 LVPLGKEVDESSREMRMILKDKOKHPEKDDQDLOVEMANYVLSHQKSRAFYIQTAR	Qy	301 LVPLGKEVDESSREMRMILKDKOKHPEKDDQDLOVEMANYVLSHQKSRAFYIQTAR
Db	301 LVPLGKEVDESSREMRMILKDKOKHPEKDDQDLOVEMANYVLSHQKSRAFYIQTAR	Db	301 LVPLGKEVDESSREMRMILKDKOKHPEKDDQDLOVEMANYVLSHQKSRAFYIQTAR
Qy	361 MMTGAGNILKKHAEQAKKASSMSEVHTDEPDFISKVFFDPCSIQCLENGAVLTVR	Qy	361 MMTGAGNILKKHAEQAKKASSMSEVHTDEPDFISKVFFDPCSIQCLENGAVLTVR
Db	361 MMTGAGNILKKHAEQAKKASSMSEVHTDEPDFISKVFFDPCSIQCLENGAVLTVR	Db	361 MMTGAGNILKKHAEQAKKASSMSEVHTDEPDFISKVFFDPCSIQCLENGAVLTVR
Qy	421 KGGDMSKTMVYDQKTEDGSANAGADEYFTEGTVLKGEOFKEFSGVLTDDDFEDEHF	Qy	421 KGGDMSKTMVYDQKTEDGSANAGADEYFTEGTVLKGEOFKEFSGVLTDDDFEDEHF
Db	421 KGGDMSKTMVYDQKTEDGSANAGADEYFTEGTVLKGEOFKEFSGVLTDDDFEDEHF	Db	421 KGGDMSKTMVYDQKTEDGSANAGADEYFTEGTVLKGEOFKEFSGVLTDDDFEDEHF
Qy	481 FVRLSNVRVEEQPEEGMPPAFNSPLPRAVLASPVCATVTLDDDHAGIFTFECDTIH	Qy	481 FVRLSNVRVEEQPEEGMPPAFNSPLPRAVLASPVCATVTLDDDHAGIFTFECDTIH
; US-09-901-419-2			
Sequence 2, Application US/09901419			
GENERAL INFORMATION:			
APPLICANT: The Curators of the University of Missouri			
TITLE OF INVENTION: LARGE SCALE EXPRESSION AND PURIFICATION OF RECOMBINANT			
FILE REFERENCE: US/01531.1			
CURRENT APPLICATION NUMBER: US/09/901,419			
CURRENT FILING DATE: 2001-07-09			
PRIORITY APPLICATION NUMBER: 60/218,125			
NUMBER OF SEQ ID NOS: 2			
SOFTWARE: Patentin Ver. 2.1			
SEQ ID NO: 2			
LENGTH: 970			
; TYPE: PRT			
; ORGANISM: Bos taurus			
; US-09-901-419-2			
Query Match			
Best Local Similarity 69.4%; Score 2147.5; DB 10; Length 970;			
Matches 422; Conservative 74; Mismatches 9; Indels 21; Gaps 8;			
Qy	1 MAWLRLQPLTSFLHGLVFLFNGLRAEAGGSDVPSTGQNNECSSSCKEGVIL	Qy	1 MAWLRLQPLTSFLHGLVFLFNGLRAEAGGSDVPSTGQNNECSSSCKEGV
Db	1 MAWLRLQPLTSFLHGLVFLFNGLRAEAGGSDVPSTGQNNECSSSCKEGVIL	Db	1 MAWLRLQPLTSFLHGLVFLFNGLRAEAGGSDVPSTGQNNECSSSCKEGV
Qy	61 PIWYEPENPSLQGDKTARVIVFVALIYFLGVSIADRMSAIEVITSQEREVTIKPN	Qy	61 PIWYEPENPSLQGDKTARVIVFVALIYFLGVSIADRMSAIEVITSQEREVTIKPN
Db	61 PIWYEPENPSLQGDKTARVIVFVALIYFLGVSIADRMSAIEVITSQEREVTIKPN	Db	61 PIWYEPENPSLQGDKTARVIVFVALIYFLGVSIADRMSAIEVITSQEREVTIKPN
Qy	121 TSTTTRVWNNETVSNLTMALGSSAPEIILSLLIEVCGHGTAGDGLGPSTIVGSAFNFI	Qy	121 TSTTTRVWNNETVSNLTMALGSSAPEIILSLLIEVCGHGTAGDGLGPSTIVGSAFNFI
Db	121 TSTTTRVWNNETVSNLTMALGSSAPEIILSLLIEVCGHGTAGDGLGPSTIVGSAFNFI	Db	121 TSTTTRVWNNETVSNLTMALGSSAPEIILSLLIEVCGHGTAGDGLGPSTIVGSAFNFI
Qy	181 IIGICVYVVIDGETIKHARVEFTAANSIFAYIWLYMLAVSPGVVWVWEGLTLFF	Qy	181 IIGICVYVVIDGETIKHARVEFTAANSIFAYIWLYMLAVSPGVVWVWEGLTLFF
Db	181 IIGICVYVVIDGETIKHARVEFTAANSIFAYIWLYMLAVSPGVVWVWEGLTLFF	Db	181 IIGICVYVVIDGETIKHARVEFTAANSIFAYIWLYMLAVSPGVVWVWEGLTLFF
Qy	241 FPPVCVLLAWADKRLFYKMHKKYRTDKHGRGIIITEGDPHPKGTEMGKMMNSHLDGN	Qy	241 FPPVCVLLAWADKRLFYKMHKKYRTDKHGRGIIITEGDPHPKGTEMGKMMNSHLDGN
Db	241 FPPVCVLLAWADKRLFYKMHKKYRTDKHGRGIIITEGDPHPKGTEMGKMMNSHLDGN	Db	241 FPPVCVLLAWADKRLFYKMHKKYRTDKHGRGIIITEGDPHPKGTEMGKMMNSHLDGN
Qy	301 LVPLGKEVDESSREMRMILKDKOKHPEKDDQDLOVEMANYVLSHQKSRAFYIQTAR	Qy	301 LVPLGKEVDESSREMRMILKDKOKHPEKDDQDLOVEMANYVLSHQKSRAFYIQTAR
Db	301 LVPLGKEVDESSREMRMILKDKOKHPEKDDQDLOVEMANYVLSHQKSRAFYIQTAR	Db	301 LVPLGKEVDESSREMRMILKDKOKHPEKDDQDLOVEMANYVLSHQKSRAFYIQTAR
Qy	361 MMTGAG		

Query Match 66.4%; Score 2143.5; DB 10; Length 609;
 Best Local Similarity 69.3%; Pred. No. 1.4e-12; 89; Indels 21; gaps 8;
 Matches 420; Conservative 76; Mismatches 81;

RESULT 6

Db 593 EFQNDENV 600

Sequence 33429, Application US/09864761
 Patent No. US2002008763A1

GENERAL INFORMATION:

APPLICANT: Penn, Starron G.
 APPLICANT: Rank, David R.
 APPLICANT: Hanzel, David K.
 APPLICANT: Chen, Wensheng

TITLE OF INVENTION: HUMAN GENOME-DERIVED SINGLE EXON NUCLEIC ACID PROBES USEFUL FOR FILE REFERENCE: Aedonica-X-1

CURRENT APPLICATION NUMBER: US/09/864,761

CURRENT FILING DATE: 2001-05-23

PRIOR APPLICATION NUMBER: US 60/180,312

PRIOR FILING DATE: 2000-02-04

PRIOR APPLICATION NUMBER: US 60/207,456

PRIOR FILING DATE: 2000-05-26

PRIOR APPLICATION NUMBER: US 09/632,366

PRIOR FILING DATE: 2000-08-03

PRIOR APPLICATION NUMBER: GB 24263.6

PRIOR FILING DATE: 2000-10-04

PRIOR APPLICATION NUMBER: US 60/236,359

PRIOR FILING DATE: 2000-09-27

PRIOR APPLICATION NUMBER: PCT/US01/00666

PRIOR FILING DATE: 2001-01-30

PRIOR APPLICATION NUMBER: PCT/US01/00667

PRIOR FILING DATE: 2001-01-30

PRIOR APPLICATION NUMBER: PCT/US01/00668

PRIOR FILING DATE: 2001-01-30

PRIOR APPLICATION NUMBER: PCT/US01/00669

PRIOR FILING DATE: 2001-01-30

PRIOR APPLICATION NUMBER: PCT/US01/00665

PRIOR FILING DATE: 2001-01-30

PRIOR APPLICATION NUMBER: PCT/US01/00668

PRIOR FILING DATE: 2001-01-30

PRIOR APPLICATION NUMBER: PCT/US01/00663

PRIOR FILING DATE: 2001-01-30

PRIOR APPLICATION NUMBER: PCT/US01/00662

PRIOR FILING DATE: 2001-01-30

PRIOR APPLICATION NUMBER: PCT/US01/00661

PRIOR FILING DATE: 2001-01-30

PRIOR APPLICATION NUMBER: PCT/US01/00670

PRIOR FILING DATE: 2001-01-30

PRIOR APPLICATION NUMBER: US 60/234,687

PRIOR FILING DATE: 2000-09-21

PRIOR APPLICATION NUMBER: US 09/608,408

PRIOR FILING DATE: 2000-06-30

PRIOR APPLICATION NUMBER: US 09/774,203

PRIOR FILING DATE: 2001-01-29

NUMBER OF SEQ ID NOS: 49117

SOFTWARE: Anomax Sequence Listing Engine vers. 1.1

SEQ ID NO 33429

LENGTH: 609

TYPE: PRT

ORGANISM: Homo sapiens

FEATURE:

OTHER INFORMATION: MAP TO AC007281.3

OTHER INFORMATION: EXPRESSED IN FETAL LIVER, SIGNAL = 0.64

OTHER INFORMATION: EXPRESSED IN HELA, SIGNAL = 0.68

OTHER INFORMATION: EXPRESSED IN ADULT LIVER, SIGNAL = 0.69

OTHER INFORMATION: EXPRESSED IN HEART, SIGNAL = 6.1

OTHER INFORMATION: EXPRESSED IN LUNG, SIGNAL = 0.83

OTHER INFORMATION: EXPRESSED IN BRAIN, SIGNAL = 1.3

OTHER INFORMATION: EXPRESSED IN PLACENTA, SIGNAL = 0.68

OTHER INFORMATION: EST HUMAN HIT: AW523981, EVALU 1.00e-49

OTHER INFORMATION: SWISSPROT HIT: P32418, EVALU 0.00e+00

US-09-864-761-33429

Query Match 6.3%; Score 203.5; DB 12; Length 661;

Best Local Similarity 22.3%; Pred. No. 9e-11; 8;

Db 11 MRLSLPFTSMGFLHFLVTLVSLFHVHDVIAETEMEGEGNETGE---CGSYVCKGV 66

Db 59 ILPIWYENPSLGDKLARVIVVVALYMLGVSIIDRFMASIEVITSQREVTIKPN 118

Db 67 ILPIWEPQDPSFGDKLARATVIVFVAMVYMFQVSIIDRFMSSIEVITSQREKEITIKPN 126

QY 1 MAWLRLQPLTSALHFGIVTFVLF--LNLGLRAEGGSDDVSTGQNNESGSSDKEGV 58

Db 179 FITIGICVYVIFDGETRKHVRFFITAMSIFAVIWLMLAVSPGVWQWEGLTL 238

QY 296 --FLDENLVPLLEGKED---ESRMRITLKDQKHPKDOLVEMANYALSHQ 348

Db 307 VENFLDGVLL-LEVDERQDDEARREMARILKELQKHPDKEOLIELANYQVLSQQ 365

Db 349 KSRAYFQIQTATMGTAGNLLKHAQAKASSMSEVHTBPE-DPISKVFFDPSYQC 407

Db 366 KSRAYFQIQTATMGTAGNLLKHAQAKASSMSEVHTBPE-DPISKVFFDPSYQC 425

QY 408 LENCGAVIILTVRKGGDMSKTMVYDYTEGDSANAGADYEFTEGTVLKPSTOKFSG 467

Db 426 LENCGTVALLTIRRGDLNTVFDFTEDGTANAGSSDYEFTEGTVFKEPDQTKIRVG 485

QY 468 IIDDIFEEDEIFVRLSVRTEEEPEEGMPATIFNSLPLPRAVIAASCYATVILDD 527

Db 486 IIDDIFEEDEFLVHISNNKVSEASEDGELEANHVS---TLACLGSPSTATVIFDD 542

QY 528 HAGIFTFECTDHVSEISGVMVKVLTSGARTGTVVTPRFTVEGTAKGGDFFDYGEL 587

Db 543 HAGIFTFEEPVTHVSEISGIMEVKVLRTSGARGNVTVPKTLEGTARGGDDFEDICGEL 602

QY 588 ERKND E 593

Db 603 EFQNDENV 608

RESULT 7

US-10-094-214-5

Sequence 5, Application US/10094214

Patent No. US20020132303A1

GENERAL INFORMATION:

APPLICANT: Curtis, Rory A.J.

APPLICANT: Millennium Pharmaceuticals Inc.

TITLE OF INVENTION: 69318, A Human Sodium/Calcium Exchanger

FILE REFERENCE: IMP10-038P1RM

CURRENT APPLICATION NUMBER: US/10/094 214

CURRENT FILING DATE: 2002-03-08

PRIOR APPLICATION NUMBER: 60/275,078

PRIOR FILING DATE: 2001-03-12

NUMBER OF SEQ ID NOS: 5

SOFTWARE: FASTSEQ for Windows Version 4.0

SEQ ID NO 5

LENGTH: 661

TYPE: PRT

ORGANISM: homo sapiens

US-10-094-214-5

Matches 128; conservative 91; Mismatches 204; Indels 151; Gaps 28; Qy 39 PSTQNNESCGSSDCKEGVILPIWPENP-SLGD-KIARVIVFVALIMFLGVSIAD 95 Db 101 PPLSKEGES-ENSPDHAQD---YPKDIFSLERRKGAIILIVIGMITYMFLALIYCD 154 Qy 97 R-FMASIEVITSQREVTIKKPGNETSTTIRVNNETVSNTLMALGSSAPEILSLEI 155 Db 155 EFVPSLTVITEK-:-----LGI-SDDVAGATFMAAGGSAPELTSLIGV 196 Qy 156 CGHGTIA-GDLGSPSTIVGSAFAFNMFILIGICVYV-IPDGETTRKIKHLRVEITAWSIFAY 214 Db 197 ---FIAHSRNGIGITVGSAAVFNLFVIGCALF---SREILNL-----TWPLFRD 241 Qy 215 IWLY---MILAVFSPGVQWQWIGSLTL-FFIVCULL---AWADKRLFLYK 261 Db 242 VSFVYDVLMLITFLDNYIMMWSLILLTAYFCVWVEMKFNTOVKEKW--KOMINRKV 299 Y 262 HKKYTDKHRGIIETEGDHP---KG1EMDGKMNH-FDGNLVLPLEGEKVEDSRR 314 Db 300 VKVTAPEAQAKPSAARDKDEPTLAKPRIQRGGSASLNSLARNISIOL----- 349 Qy 315 EMIRILKDLKOKHPEKDQLDOLVEMANYALSHQOKSRAFYRIQATRMMGAGNIKKHA 374 Db 350 -MIHTLDPLAE-----ELGSYGIKYD-----TWIEGRFREKAST 385 Qy 375 --EQAKKASSMSVEHTDEPE---DFISKVFDPCSYQCLENGAVLTVWKGDS 426 Db 386 LHKIAKK-----KCHVDENBRQNGAANHVEKIELPNSTSDVEMPPSSDAESEPVONGNL 440 Qy 427 KTMVYDVKEDGDSANAGADYEFFECTVVLPGKEQFSGVIGIIDDIFEEDEHFVRLSN 486 Db 441 HNI-:-----EGAQTABEEDQPLSLAWPSERKQVWFLVPIVF---LWITLDP 489 Qy 487 VRIEPEQPERGMPAIFNSLPLPRAVLASPCVATVILDDHAGITFECDTI---HVS 542 Db 490 VR--KPSRKFFPITFFGSI-----TWIAVFSYLMVWWAHQVG 525 Qy 543 ESGYMEVKYLRTSGARGTVIPERTVEGTAKG 576 Db 526 ETIGISEEINGLTLAAGTSIPDLTISVARKG 559

RESULT 8
US-09-961-679-2
Sequence 2, Application US/09961679
Patent No. US20020107380A1
GENERAL INFORMATION:
APPLICANT: Fiddle, Carl Johan
APPLICANT: Gerrhardt, Brenda
TITLE OF INVENTION: Human Ion-Exchanger Proteins and Polynucleic Acid Reference: LEX-0239-USA
CURRENT FILING DATE: 2001-09-24
PRIORITY FILING DATE: 2000-09-27
PRIORITY APPLICATION NUMBER: US/09/961,679
NUMBER OF SEQ ID NOS: 7
SOFTWARE: FastSEQ for Windows Version 4.0
SEQ ID NO 2
LENGTH: 584
TYPE: PR
ORGANISM: homo sapiens
US-10-094-214-2

Query Match 3.6%; Score 116.5; DB 12; Length 584;
Best Local Similarity 21.7%; Pred. No. 0.011; Gaps 14;
Matches 60; Conservative 41; Mismatches 84; Indels 91; Gaps 14; Qy 25 LNLGLAEGG---SDVDPSSQGN-----NESC---SGSSC 54 Db 24 VSGTRGSSTGAHSIOPPASGVNQTPVVDCKRKVCGLNVS3RCDFRTNPCHSDGQYLD 83 Qy 55 KEGV-----ILPIWPENPSLGDKIARVIVFVALIMFLGVSIADRFMASTEVITS 107 Db 84 LEGIICHPFPLLP-----AVTLYSSWLLKFLILGVTAKKFC----- 123 Qy 108 QEREVTIKKPGNETSTTIRVNNETVSNTLMALGSSAPEILSLEI 167 Db 124 -----PNLAIStTTLK-LSHWAGVTFLAGNGADPFLSALVAF-----SDPHT 166 Qy 168 STIVGSAFAFNMFILIGICVYV-IPDGETTRKIKHLRVEITAWSIFAYIMI-----L 221 Db 167 AGLALGALFGAGVVLV---TWVAGGIT-ILHP---FMAASRPFERDIFYMVAFLTFL 218 Qy 222 AVFSGQVQWEGIITLFFFV-CVLLAWADKR 254 Db 219 MLFRVRYTAWALGTYLGIVYVYVWVILCWIYORQ 254

Query Match 5.6%; Score 180.5; DB 10; Length 603;
Best Local Similarity 23.4%; Pred. No. 1.1e-08; Gaps 13;
Matches 78; Conservative 52; Mismatches 122; Indels 81; Gaps 13;
RESULT 10
US-10-094-214-4
Sequence 4, Application US/10094214
Patent No. US2002013203A1
GENERAL INFORMATION:

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